



In re:

Harrington, et al.

Appl No.:

Not Yet Assigned

Group Art Unit:

Not Yet Assigned

Filed:

Concurrently Herewith

Examiner:

Not Yet Assigned

For:

COMPOSITIONS AND METHODS FOR NON-TARGETED ACTIVATION

OF ENDOGENOUS GENES

February 25, 2000

Box Patent Application Assistant Commissioner for Patents Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT CITATION UNDER 37 C.F.R. § 1.97

Sir:

Attached is a list of documents on form PTO-1449. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

All items are attached except those that were supplied in parent Application No. 09/276,820 filed March 26, 1999. Since the benefit of this application was claimed under 35 U.S.C. 120, no copies need to be furnished in accordance with 37 C.F.R. 1.98(d); however, copies will be furnished on request.

Respectfully submitted,

AnnelSrow

Anne Brown

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Date of Deposit: February 25, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Box Patent Application, Assistant Commissioner of Patents, Washington, DC 20231.

RTA01/2074309v1

Nora C. Martinez



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IAL	1	5,024,9	1 (1011)	06/18/1991	Gorman	435		69.1	05/28/1992
	AA1 AB1	5,272,0		12/21/1993	Chappel	435		8	06/07/1995
	AC1	5,547,9		08/20/1996	Lin	514		69.1	08/05/1994
	AD1	5,561,0		10/01/1996	Crowley	43!		69.1	08/05/1993
	AE1	5,578,		11/26/1996	Sherwin et al.	43		6	09/06/1994
	AF1	5,580,		12/03/1996	Treco et al.	43			06/06/1995
		5,618,		04/08/1997	Lin	43		350	06/06/1995
	AG1	5,621,		04/15/1997	Lin	53		240.2	05/13/1994
	AH1	5,641,		06/24/1997	Treco et al.	43			03/02/1994
	AI1	 		10/14/1997	Devine et al.	43		320.1	
	AJ1	5,677,		11/04/1997	Capon et al.	43	35	320.1	05/23/1995
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	AL1 WO 90/14092		/14092	11/29/1990					Y
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	A01	WO 92	2/19255	11/12/1992	WIPO				
	AP1	WO 9	2/20808	11/26/1992	WIPO				
			OTHER	(Including Aut	hor, Title, Date, Pertin	ent Pages, et	<u>c., </u>		
	AR	1	Ashe, M.P. proximal (1995).	., et al., "Pol polyadenylation	y(A) site selection in to n by the downstream major	he HIV-1 prov splice donor	irus: ir site,"	nhibition of Genes & Dev	promoter- elop. 9:3008-30
	AS	1	Auch, D., genomic D	, and Reth, M., DNA fragments,"	"Exon trap cloning: usi Nucl. Acids Res. 18:6743	ng PCR to rap 3-6744 (1990).	idly det	tect and clo	ne exons from
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	AA2	5,707,		01/13/1998	Calos Devine et al.	435	91.41	03/02/1995
	AB2	5,728,	551	03/17/1998	Treco et al.	435	69.6	03/17/1995
	AC2	5,733,		03/31/1998	Treco et al.	435	172.3	05/26/1995
	AD2	5,733,		03/31/1998	Treco et al.	435	6	09/06/1994
	AE2	5,783		07/21/1998	Berns et al.	435	172.3	08/07/1997
	AF2	5,789		08/04/1998	Reff et al.	435	69.1	03/14/1997
	AG2	5,830		11/03/1998	Devine et al.	435	320.1	06/10/1996
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	AL2	WO 93	3/09222	05/13/1993	WIPO			
	AM2	WO 94	4/12650	06/09/1994	WIPO			
	AN2	AU 7	1893/94	06/30/1994	Australia			
	A02	FR 2	707 091	01/06/1995	France			
	AP2	WO 9	5/31560	11/23/1995	WIPO			
	172		OTHER	(Including Aut	hor, Title, Date, Pertinent	Pages, etc.)		
	AR	2	Barker, C. Moloney Mo	.s., et al., *Ac urine Leukemia '	etivation of the Prolactin Virus-Induced Rat Thymoma,	Receptor Gene	by Promoter Ins (11):6763-6768 (1	ertion in a 1992).
	AS	2	Black, A. Specific	C., et al., "HT RNA Secondary S	LV-II Rex Binding and Activity of the structure," AIDS Res. & Huma	vity Requires an Retroviruse	an Intact Splice § 8:870 (1992).	Donor Site a
	ТА	2	Brikun, Bacterio	i., et al., "And logy 178(6):1614	alysis of CRP-CytR Interact	tions at the $\it E$	scherichia coli u	udp Promoter,"
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Page 3 of 25 APPLICATION NO.
Not Yet Assigned ATTY. DOCKET NO. 5817-70 **FORM PTO-1449** APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP Concurrently Herewith Not Yet Assigned U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AA AB AC ΑD ΑE ۸F AG ΑH ΑI AJ AK FOREIGN PATENT DOCUMENTS FYAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AL3 WO 96/04391 02/15/1996 WIPO No Yes AM3 WO 96/29411 09/26/1996 WIPO No Yes EP 0 742 285 A1 11/13/1996 Europe No Yes A03 04/09/1998 WO 98/14614 A1 WIPO No Yes AP3 WO 99/07389 A1 02/18/1999 WIPO No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Buckler, A.J., et al., "Exon amplification: A strategy to isolate mammalian genes based on RNA AR <u>3</u> splicing, " Proc. Natl. Acad. Sci. USA 88:4005-4009 (1991). Butturini, A., et al., "Oncogenes in Human Leukemias," Acta Haematologica 78(suppl. 1):2-10 AS <u>3</u> (1987).Butturini, A., and Gale, R.P., "Oncogenes and Human Leukemias," Intl. J. Cell Cloning 6(1):2-24 ΑT <u>3</u> (1988).EXAMINER DATE CONSIDERED

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	AS	8	Fujisawa, leukemia	JI., et al., virus type I by	"Functional activat a <i>trans</i> -acting fact	tion of the lo tor," <i>Proc</i> . Na	ng terminal tl. Acad. So	repeat of h	uman T-cell 277-2281 (1985)
	AT	8	Fung, Y Basis for	-K.T., et al., " r Induction of E	Activation of the C rythroblastosis by	ellular Oncogo Avian Leukosi	ene c- <i>erbB</i> 1 s Virus," <i>C</i>	oy LTR Inser ell 33:357-3	tion: Molecular 68 (1983).
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	AS	2	Hayward, W lymphoid l	.s., et al., "Act eukosis," <i>Nature 2</i>	ivation of a cellula 290:475-480 (1981).	ar <i>onc</i> gene by	promoter	insertion ir	ALV-induced
	AT	2	Jackson, I 3798 (1991	.J., "A reapprais).	al of non-consensus	mRNA splice	sites," <i>Nuc</i>	:1. Acids Res	:. 19(14):3795-
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	AS	10	Joyner, A Mammalian	.L., "Gene Targe Development," <i>B</i>	ting and Gene Trap S ioEssays 13:649-656	creens Using (1991).	Embryonic S	stem Cells: N	New Approaches
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	AS	11	Kreissig, Acids Res.	s., et al., "E 24:4358-4359	xpression of peptides (November 1996).	encoded by e	kons in cla	ned mammalia	n DNA," Nucl.
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	AS	13	Moore, R., oncogene a	et al "Sequen	ce, topography and p se mammary tumour vi	protein coding rus," <i>EMBO J</i> .	g potential 5(5):919-97	of mouse <i>in</i> 24 (1986).	t-2: a putative
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	AS	15	Niwa, H., of Gene-Tr	et al., "An Efficap Events," J. B	cient Gene-Trap Method Using Po iochem. 113:343-349 (1993).	ly A	Trap Vec	tors and Ch	aracterization
	AT	15	Nottenburg Structure (1986).	g, C., and Varmus of c- <i>myc</i> RNA in	s, H.E., "Features of the Chicke Normal Cells and Bursal Lymphon	en c-M	nyc Gene Mol. Cei	That Influe	nce the 3):2800-2806
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	AT	19	Shen-Ong, Mol. Cell	G.L.C., et al., . Biol. 6(2):380-	«тwo Modes of c-myt 392 (1986).) Activation i	n Virus-In	duced Mouse M	yeloid Tumors,
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	AS	20	Simpson, I Cells," M	K., et al., "S ol. Cell. Biol	table Episomal Mainten . 16:5117-5126 (Septemi	ance of Yeast ber 1996).	Artificia	Chromosomes	s in Human
	AT	20	I Fretein-H	, and Sarasin, Barr virus-SV40 11. 73:1679-168	A., "Simian virus 40 hybrid shuttle vector 5 (1992).	(SV40) large r integrated	T antigen- into the hu	dependent am man Kela cel	plification of l genome," J.
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	AS	21	Sun, TQ. human cel	., et al., "Huma Ls," Nature Gene	n artificial episoma tics 8:33-41 (1994).	l chromosomes	s for cloni	ng large DNA	fragments in		
	. AT	21	Takami, Y Carcinoma	., et al., "Clor in Indonesia,"	ning and Characterize Int. J. Cancer 48:51	ation of Huma 16-522 (1991)	n Papillom	avirus Type !	52 From Cervic		
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	AS	22	Tsichlis, thymic ly	P.N., et al., " mphomas," <i>Nature</i>	A common region for 302:445-449 (1983).	proviral DNA	integration	n in MoMuLV-	induced rat
	AT	22	Unger, R.	E., et al., "Sil env mRNA," Viro	nian Immunodeficiency 1 <i>0gy 182:</i> 177-185 (199	/ Virus (SIVma	ac) Exhibit	s Complex Sp	olicing for tat
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	AS	23	Voss, A.K 180 (June	., et al., "Eff 1998).	iciency Assessment of the	Gene Trap	Approach	" Develop. (Dynamics 212:17
	AT	23	IEXTRACTOR	, E.M., et al., omosomal Persis er 1998).	"A System for Shuttling 20 tence and Long-Term Ectopi	00-kb BAC/ c Gene Act	PAC Clone ivation,	es into Humar * Human Gene	n Cells: Stable Ther. 9:1863-18
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	AS	24		, and Duesberg, ming gene that 87:9128-9132 (P.H., "A retroviral pro is distinct from the <i>STC</i> 1990).	moter is suffic gene of Rous sa	ient to conver arcoma virus,"	t proto-src to a Proc. Natl. Acad.
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